
गन्ना चाकू के लिए हब — विशिष्टि

(पहला पुनरीक्षण)

Hubs for Cane Knives — Specification

(First Revision)

ICS 67.180.10

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FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Sugar Industry Sectional Committee had been approved by the Food and Agriculture Division Council.

This standard was originally published in 1985. In this revision, the standard has been brought out in the latest style and format of the Indian Standards and references to Indian Standard, where applicable have been updated. Requirement for sampling of acceptance of lot is omitted.

The composition of the committee responsible for the formulation of this standard is listed in Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of test or analysis, shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard***HUBS FOR CANE KNIVES — SPECIFICATION***(First Revision)***1 SCOPE**

This standard specifies the material, dimensions and other requirements for hubs for bolt and boltless type cane knives for use in milling plants.

2 REFERENCES

The standards listed below contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below:

<i>IS No.</i>	<i>Title</i>
IS 1030 : 1998	Carbon steel castings for general engineering purposes — Specification (<i>fifth revision</i>)
IS 8461 : 1987	Specification for cane knives (<i>first revision</i>)

3 MATERIAL

Hubs shall be made of cast steel conforming to Grade 20 to 40 of IS 1030.

4 SPOKES AND DIMENSIONS

4.1 Spokes and dimensions of hubs used for cane leveller and cane cutter suitable for bolt type and boltless type cane knives conform to IS 8461 for nominal diameter of 762 mm × 1525 mm mills are

given in Fig. 1, Fig. 2, Fig 3 and Fig 4.

NOTE — In Fig. 3 and Fig. 4, to have the advantage of reversal of knives, the sequence of the top and bottom holes has been changed in the second set.

5 OTHER REQUIREMENTS

5.1 In case of bolt type, the holes should be reamed.

5.2 The hubs shall be suitably mounted, key fitted, on the shaft.

5.3 The hubs shall be free from flaws, seams, pits and other defects. All fines, burrs, flashes and sharp edges should be removed.

6 MARKING

The hubs shall be marked with the following particulars:

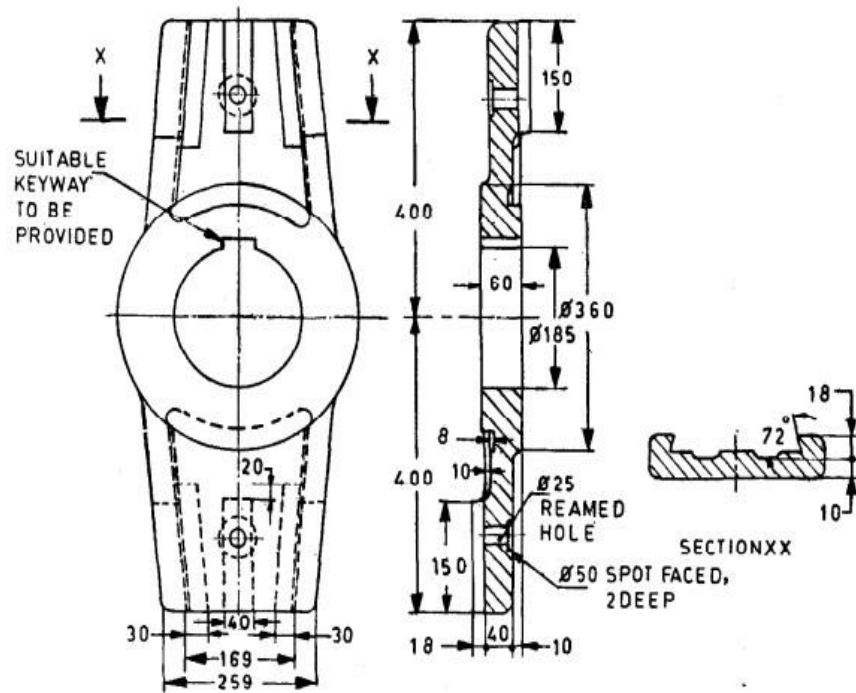
- a) Manufacturer's name or recognized trade-mark, and
- b) Code number.

6.1 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the products may be marked with the Standard Mark.

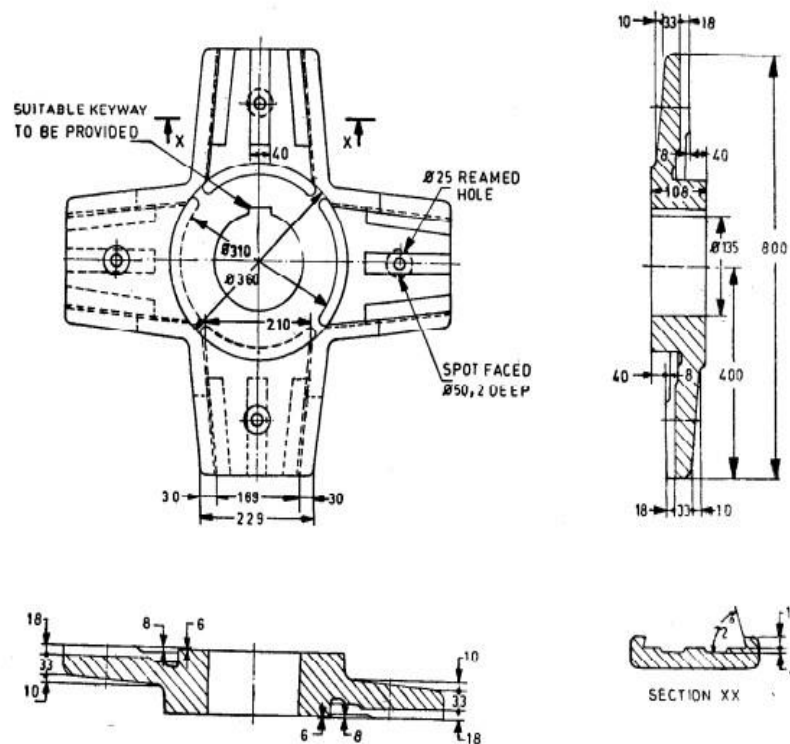
7 PACKING

As agreed to between the purchaser and the supplier.



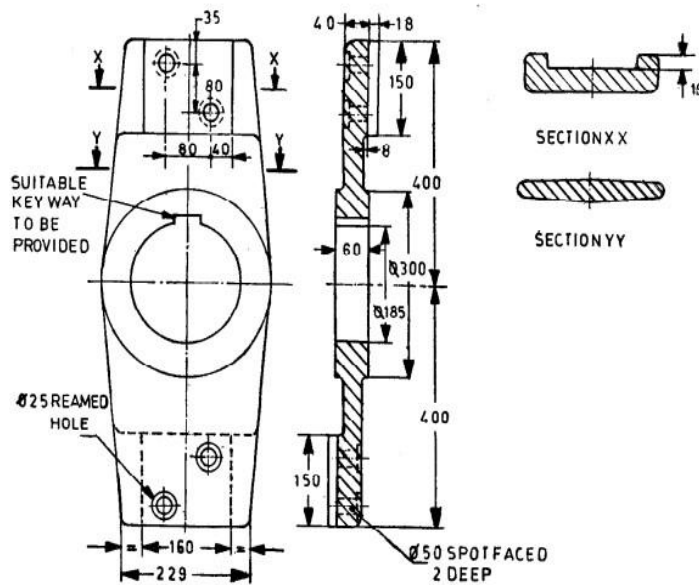
All dimensions in millimetres.

FIG. 1 CANE LEVELLER HUB FOR BOLTLESS TYPE KNIFE



All dimensions in millimetres.

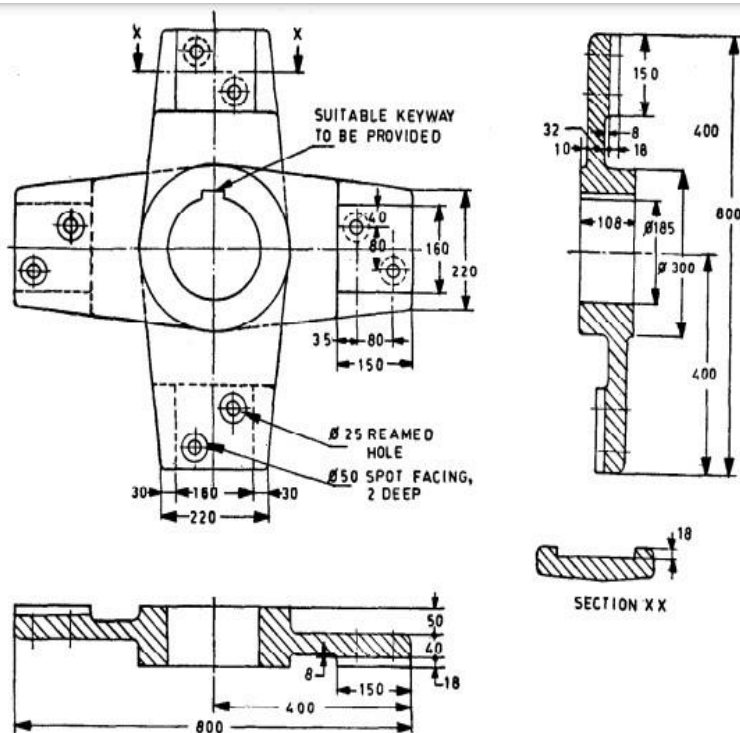
FIG. 2 CANE CUTTER HUB FOR BOLTLESS TYPE CANE KNIFE



All dimensions in millimetres.

Note — To have advantage of the reversal of knife, the sequence of holes in hub is shown as such.

FIG. 3 CANE LEVELLER HUB FOR BOLT TYPE CANE KNIFE



All dimensions in millimetres.

Note — To have advantage of readjustment of knife, the sequence in the hub is shown as such.

FIG. 4 CANE CUTTER HUB FOR BOLT TYPE CANE KNIFE

ANNEX A

(Foreword)

COMMITTEE COMPOSITION

Sugar Industry Sectional Committee, FAD 02

<i>Organization</i>	<i>Representative(s)</i>
National Sugar Institute, Kanpur	SHRI NARENDRA MOHAN (<i>Chairperson</i>)
Army Service Core (ASC), New Delhi	LT COL B. B. SAHU
CONCERT, Chennai	SHRI R. SANTHANAM SHRI M. SOMASUNDARAM (<i>Alternate</i>)
Consumer Guidance Society of India, Mumbai	SHRI SITARAM DIXIT DR M. S. KAMAT (<i>Alternate</i>)
Food Corporation of India, New Delhi	SHRI DEEPAK KUMAR PANWAR SHRI RAKESH KUMAR RANJAN (<i>Alternate</i>)
Food Safety Standards Authority of India, New Delhi	MS APOORVA SRIVASTAVA
Global Cane Sugar Ltd, New Delhi	DR G. S. C. RAO SHRI ANIL SRIVASTAVA (<i>Alternate</i>)
Indian Institute of Sugarcane Research, Lucknow	DR A. D. PATHAK DR A. K. SHARMA (<i>Alternate</i>)
Indian Institute of Toxicology Research, Lucknow	DR YOGESHWER SHUKLA
Indian Sugar Exim Corporation, New Delhi	SHRI RAJIV AGGARWAL SHRI RAJEEV KURUP (<i>Alternate</i>)
Indian Sugar Mills Association, New Delhi	SHRI G. K. THAKUR SHRI DEEP MALIK (<i>Alternate</i>)
MAARC Labs, Pune	DR VASUDHA KESKAR
MANAS Industry, Maharashtra	SHRI JEEVAN VASANT JADHAV
Ministry of Consumer Affairs, Food & Public Distribution, New Delhi	SHRI SURESH CHANDRA
National Co-Operative Development Corporation, New Delhi	SHRI K. P. VAISH SHRI N. K. SHARDA (<i>Alternate</i>)
National Federation of Co-Operative Development Corporation, New Delhi	SHRI PRAKESH P NAIKNAVARE SHRI S. SOMASUNDARAM (<i>Alternate</i>)
The Sugar Technologists Association of India, New Delhi	SHRI SANJAY AWASTHI SHRI ANURAG GOYAL (<i>Alternate</i>)
Triveni Engineering & Industries Ltd, Muzaffar Nagar	SHRI RAJESH SINGH SHRI P. K. KHADELWAL (<i>Alternate</i>)

<i>Organization</i>	<i>Representative(s)</i>
Tamil Nadu Sugar Corporation Ltd (TASCO), Chennai	SHRI E. MUTHUVELAPPAN
Vasantdada Sugar Institute, Pune	DR RAJEEV DANI
Walchand nagar Industries	SHRI D. R. SARDESHMUKH SHRI P. V. KAWADE (<i>Alternate</i>)
BIS Directorate General	SHRIMATI SUNEETI TOTEJA, SCIENTIST 'E'/DIRECTOR AND HEAD (FOOD AND AGRICULTURE) [REPRESENTING DIRECTOR GENERAL (<i>Ex-officio</i>)]

Member Secretary
SHRI RAJPAL
SCIENTIST 'D'/JOINT DIRECTOR
(FOOD AND AGRICULTURE), BIS

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Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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